CLAIMS

_What is claimed is:

1   1.   A method for completing a multimedia call addressed to a user address of a

2   mobile user, the mobile user having registered to receive a multimedia call at a multimedia

3   terminal with a personal intelligent device ("PID"), comprising:

4   storing a user address and a physical address of the multimedia

5   terminal in a mobile user record, wherein the user address was received from

6   the PID via the multimedia terminal;

7   responsive to a multimedia call addressed to the user address,

8   determining the physical address based at least partly from the mobile user

9   record;

10   transmitting call notification information to the multimedia terminal at

11   the physical address; and

12   completing the multimedia call to the multimedia terminal at the

13   physical address.

1   2.   The method of claim 1, wherein the call notification information includes the

2   user address.

1   3.   The method of claim 2, wherein the call notification information incudes a call

2   announcement message.

1   4.   The method of claim 1, wherein

2   storing a user address includes storing a PID address, wherein the

3   PID address was received from the PID via the multimedia terminal; and

4   determining the physical address includes determining the PID

5   address.

1   5.   The method of claim 4, wherein transmitting the call notification information

2   includes the PID address.

1   6.   The method of claim 5, wherein the call notification information includes a call

2   announcement message.

1   7.   The method of claim 4, wherein transmitting the call notification information

2   includes transmitting a call announcement message addressed to the PID address.
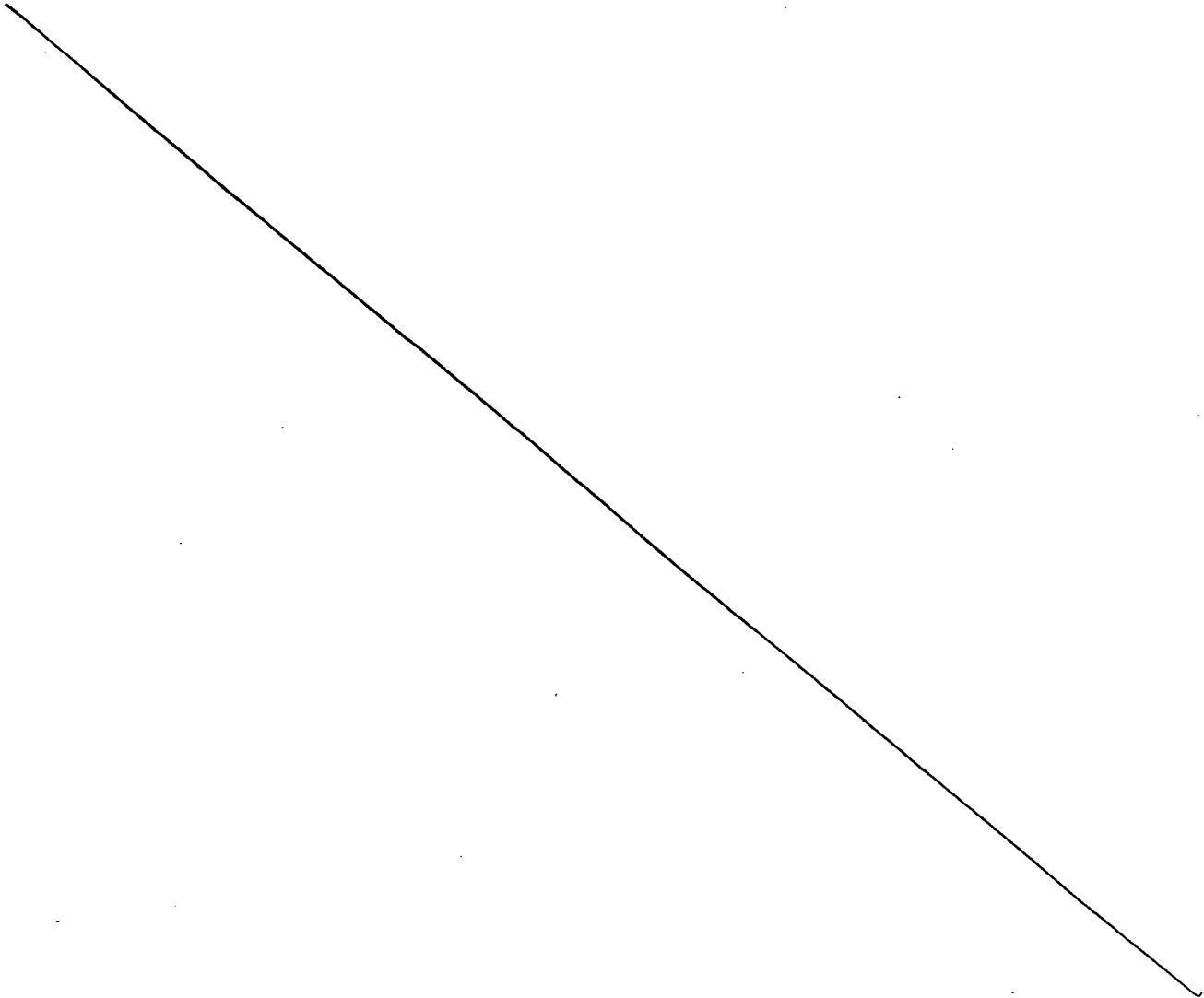
1   8.   The method of claim 4, wherein

2   storing a user address includes storing a user credential, wherein the

3   user credential was received from the PID via the multimedia terminal; and

4   determining the physical address of the multimedia terminal includes

5   determining the PID address.

1   9.   The method of claim 8, wherein the step of storing in a memory a mobile user

2   record is performed only if the user address is determined to be authentic based at least in

3   part from the user credential.

1   10.   The method of claim 8, wherein the step of storing in a memory a mobile user

2   record is performed only if the user address is determined to be authorized.

1 11. The method of claim 9, wherein the step of storing in a memory a mobile user

2 record is performed only if the user address is determined to be authorized.

1 12. The method of claim 8, wherein completing the multimedia call to the

2 multimedia terminal at the physical address includes:

3 receiving a second user credential; and

4 completing the multimedia call to the multimedia terminal at the

5 physical address only if the received second user credential corresponds to

6 the stored user credential.

1   13.   A method for processing a multimedia call addressed to a user address of a

2 mobile user having used a personal intelligent device ("PID") to register to receive a

3 multimedia call at a multimedia terminal, comprising:

4   associating a physical address of the multimedia terminal and a user

5   address, the user address having been received from a PID via the

6   multimedia terminal;

7   responsive to a multimedia call addressed to the user address,

8   determining the physical address based at least partly from the association of

9   the physical address and the user address;

10   determining that the multimedia call cannot be completed to the

11   physical address;

12   determining a second physical address, wherein the physical address

13   and the second physical address are each part of a hunt group of physical

14   addresses;

15   transmitting call notification information to the multimedia terminal at

16   the second physical address; and

17   completing the multimedia call to the second physical address.

1   14.   The method of claim 13, wherein the call notification information includes the

2 user address.

1   15.   The method of claim 14, wherein the call notification information incudes a

2 call announcement message.

16. An apparatus for completing a multimedia call addressed to a user address of a mobile user who registered, using a personal intelligent device ("PID"), to receive a multimedia call at a multimedia terminal, comprising:

    a.   a processor; and

    b.   a memory, coupled to said processor, storing a plurality of instructions adapted to be executed by said processor to:

        store a user address and a physical address of the multimedia terminal in a mobile user record, wherein the user address was received from a PID via the multimedia terminal;

        responsive to a multimedia call addressed to the user address, determine the physical address based at least partly from the mobile user record;

        transmit call notification information to the multimedia terminal at the physical address; and

        complete the multimedia call to the multimedia terminal at the physical address.

17. The apparatus of claim 16, wherein

        the user address storing instructions include instructions to store a PID address, wherein the PID address was received from the PID via the multimedia terminal; and

        the physical address determining instructions include instructions to determine the PID address.

1   18.   The apparatus of claim 17, wherein:

2   the user address storing instructions include instructions to

3   store a user credential, wherein the user credential was received from

4   the PID via the multimedia terminal; and

5   the physical address determining instructions include

6   instructions to determine the PID address.

1   19.   A system for completing a multimedia call addressed to a user address of a

2 mobile user who registered to receive a multimedia call at a multimedia terminal, comprising:

3   means for storing a user address and a physical address of the

4   multimedia terminal in a mobile user record;

5   responsive to a multimedia call addressed to the user address, means

6   for determining the physical address based at least partly from the mobile

7   user record;

8   means for transmitting call notification information to the multimedia

9   terminal at the physical address; and

10   means for completing the multimedia call to the multimedia terminal at

11   the physical address.

1   20.   A medium storing a plurality of instructions adapted for execution by a

2   processor for completing a multimedia call addressed to a user address of a mobile user who

3   registered to receive a multimedia call at a multimedia terminal, said plurality of instructions

4   comprising instructions to:

5   store a user address and a physical address of the multimedia

6   terminal in a mobile user record, wherein the user address was received from

7   a PID via the multimedia terminal;

8   responsive to a multimedia call addressed to the user address,

9   determine the physical address based at least partly from the mobile user

10   record;

11   transmit call notification information to the multimedia terminal at the

12   physical address; and

13   complete the multimedia call to the multimedia terminal at the physical

14   address.

1   21.   The medium of claim 20, wherein

2   the instructions to store a user address include instructions to store a

3   PID address, wherein the PID address was received from the PID via the

4   multimedia terminal; and

5   the instructions to determine the physical address include instructions

6   to determine the PID address.

1   22.   The medium of claim 20, wherein

2   the instructions to store a user address include instructions to store a

3   user credential, wherein the user credential was received from the PID via the

4   multimedia terminal; and

5   the instructions to determine the physical address of the multimedia

6   terminal include instructions to determine the PID address.

1   23.   The medium of claim 8, wherein the instructions to complete the multimedia

2   call to the multimedia terminal at the physical address include instructions to:

3   receive a second user credential;

4   complete the multimedia call to the multimedia terminal at the physical

5   address only if the received second user credential corresponds to the stored

6   user credential.